Name(s) of Risk Team P. Cirnigliaro			Point Value → Parameter ↓	1			2	3	4			5		5	
Area/Facility Description Title: Collider-Accelerator Area/Facility # (if applicable): Area-Wide FRA 16-05		Occupancy or Use	≤once/year			≤once/month ≤once/week		≤once/shift		>once/shift					
Area/Facility Description: NSRL Area-Wide			Severity	First Aid Only		1	Medical Treatment	lical Treatment Lost Time		Partial Disability		Death or Permanent Disability			
Approved by: E. Lessard Date: 3/31/2005 Rev.#: 0			- Likelihood	Extremely Unlikely			,	Unlikely Possible		Probable			Mult		ıltiple
Reason for Revision (i							Comments:								
		В		Additi				After Additional Controls							
Physical Item or Activity	Hazard(s)	Control(s)		Occupancy A	Severity B	Likelihood C	Risk* AxBxC	Control(s) Added to Reduce Risk				Severity B	Likelihood C	Risk* AxBxC	% Risk Reduction
Radiation	See facility-wide radiation evaluation	See Facility-Wide Radiation Evalu	ation								Occupancy				
Dispersible Radiation	Personnel exposure	Training, HP coverage, PPE, engin administrative controls, work plann	4	1	3	12									
Electrical	See facility-wide electrical evaluation	See Facility-Wide Electrical Evalua													
Material Handling	See facility-wide material handling evaluation	See Facility-Wide Material Handlin													
Housekeeping	See facility-wide housekeeping evaluation	See Facility-Wide Housekeeping E													
Housekeeping	Biological contamination	Lab specific cleaning procedures, F HEPA filters	PPE, training, hoods,	4	2	2	16								
Fire	See facility-wide fire evaluation	See Facility-Wide Fire Evaluation													
Water	Pressure	Postings, maintenance, PPE, trainir ASSRC review, procedures, Tier 1 qualified Water Group staff, LOTC	inspections, operations	s by 4	3	2	24								
Water	Temperature	Postings, maintenance, PPE, trainir ASSRC review, procedures, Tier 1 qualified Water Group staff, LOTC	ng, work planning, inspections, operations	s by 4	3	2	24								
Cryogenic	Pressure	Postings, maintenance, training, wo ESRC /ASSRC reviews, procedure pressure testing	s, PPE, Tier 1 inspection	on,	3	2	24								
Cryogenic	Low temperature	Postings, maintenance, training, wo ESRC /ASSRC reviews, procedure		on 4	3	2	24								

Pressurized gas	Being struck by an object such as flying debris	/ASSRC reviews, Certification/testi	aintenance, training, work planning, ESRC procedures, interlock systems, ng of pressure related equipment, Tier 1 O, C-AD Chief ME reviews, codes and	4	3	3	36						
Vacuum	Ear damage	Postings, PPE, ma ASSRC/ESRC re ME reviews, vacu	aintenance, training, work planning, views, procedures, Tier 1 inspections, Chief num windows covered during handling, use ards, design reviews	4	4	2	32						
Vacuum	Being struck by an object such as flying debris	Postings, PPE, maintenance, training, work planning, ASSRC/ESRC reviews, procedures, Tier 1 inspections, Chief ME reviews, vacuum windows covered during handling, , use of industry standards, design reviews		4	4	2	32						
Still for Distilled Water	Contact with temperature – extremes that result in such injuries as burns	Postings, barriers, maintenance, training, work planning, PPE, procedures, Tier 1 inspections, design reviews, ASSRC reviews, LOTO		4	2	2	16						
Lasers	Eye damage	Barriers, interlock systems, postings, training, LSO review, work planning, PPE, procedures, Tier 1 inspections, warning systems		4	2	2	16						
Magnetic Field	Adverse mechanical force exerted on ferromagnetic objects and or to electronic/medical implants.	Barriers, warning systems, postings, training, ASSRC review, work planning, procedures, Tier 1 inspections, magnetic safety reviews, medical exams		4	4	2	32						
Remotely Operated Equipment	Becoming caught in or compressed by equipment	Postings, barriers, guards, maintenance, training, work planning, procedures, Tier 1 inspections, ASSRC / ESRC reviews, LOTO		4	3	2	24						
Chemicals	Personnel exposure	Postings, barriers, PPE, maintenance, training, work planning, procedures, engineering controls, Tier 1 inspections, CMS, MSDS		3	2	2	12						
Chemicals - isoflurane	Personnel exposure	Training, ESH testing, engineering controls, administrative controls, work planning. EMTs, authorized entry only		3	2	2	12						
Cell and tissue manipulation	Being struck against an object, such as sharps		ring controls, administrative controls, work and IRB review, spill controls, PPE	3	2	2	12						
Medical waste handling	Being struck against an object, such as sharps	Training, engineering controls, administrative controls, work planning, ESRC and IACUC review, PPE		3	2	2	12						
Animal	Bites and scratches	Training, engineering controls, administrative controls, work planning, ESRC and IAUCC review, PPE		3	1	3	18						
Further Description of	Controls Added to Reduce	<u> </u>	,	•	•	<u> </u>	,						
*Risk:	0 to 20		21 to 40	41-60	60			61 to 80	81 or gre	ater			
	Negligible		Acceptable	Moderate				Substantial	Intolerable				